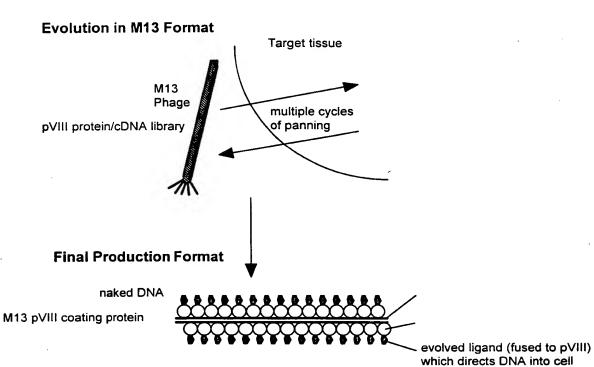




Figure 1

Protein-Coated DNA Vaccines



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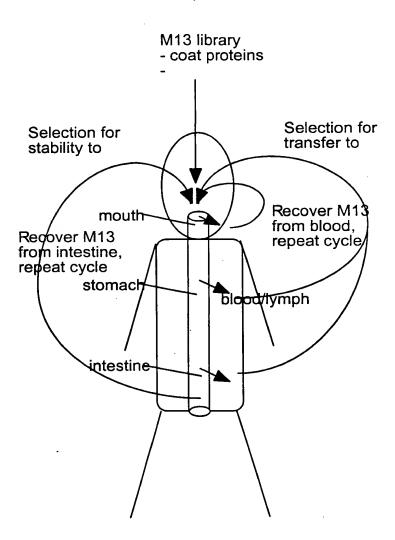
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Figure 2

M13 Evolved for Oral Delivery



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Figure 3: Alignment of bacterial enter	Alignment of bacterial enterotoxin DNA sequences illustrating the feasibility of family shuffling.
Ecoli_enterotoxin_B Ecoli_enterotoxin_B_(porcine) Cholera_toxin_SubB_DNA-seq	ATGAATAAAGTAAAATGTTATGTTTTATTTACGGCGTTACTATCCTCTCTTATGTGCAT ATGAATAAAGTAAAATGTTATGTT
E. coli enterotoxin B E. coli enterotoxin B (porcine) Cholera toxin SubB DNA-seq	61 B GGAGCTCCCCAGTCTATTACAGAACTATGTTCGGAATATCGCAACACACAAATATATACG E) GGAGCTCCCCAGACTATTACAGAACTATGTTCGGAATATCGCAACACACAAATATATACG eq GGAACACCTCAAAATATTACTGATTTGTGTGCAGAATACCACAACACACAAATATACG
E. coli enterotoxin B E. coli enterotoxin B (porcine) Cholera toxin SubB DNA-seq	121 B ATAAATGACAAGATACTATCATATACGGAATCGATGGCAGGCA
E. coli enterotoxin B E. coli enterotoxin B (porcine) Cholera toxin SubB DNA-seq	240 B ATTACATTTAAGAGCGGCGCAACATTTCAGGTCGAAGTCCCGGGCAGTCAACATATAGAC E) ATTACATTTAAGAGCGGCGAAACATTTCAGGTCGAAGTCCCGGGCAGTCAACATATAGAC eq ATTACTTTTAAGAATGGTGCAACTTTTCAAGTAGAAGTACCAGGTAGTCAACATATAGAT
E. coli_enterotoxin_B E. coli_enterotoxin_B (porcine) Cholera_toxin_SubB_DNA-seq	300 B TCCCAAAAAAAAGCCATTGAAAGGATGAAGGACACATTAAGAATCACATATCTGACCGAG E) TCCCAGAAAAAAAGCCATTGAAAGGATGAAGGACACATTAAGAATCACATATCTGACCGAG eq TCACAAAAAAAAAAGGATTGAAAGGATGAAGGATACCTTGAGGATTACTGAGAGAGA
Ecoli_enterotoxin_B Ecoli_enterotoxin_B_(porcine) Cholera_toxin_SubB_DNA-seq	301 B ACCAAAATTGATAAATTATGTGTATGGAATAATAAAACCCCCCAATTCAATTGCGGCAATC E) ACCAAAATTGATAAAATTATGTGTATGGAATAATAAAACCCCCCAATTCAATTGCGGCAATC eq GCTAAAAGTCGAAAAGTTATGTGTATGGAATAATAAAACGCCTCATGCGATTGCCGCAATT
E. coli enterotoxin B (porcine) Cholera toxin SubB DNA-seq	361 B AGTATGGAAAACTAG E) AGTATGAAAAACTAG eq AGTATGCAAATTAA

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Figure 4A

Generation of human dendritic cells from blood monocytes by culture in the presence of IL-4 and GM-CSF for seven days; phenotype of the cells before and after the culture.

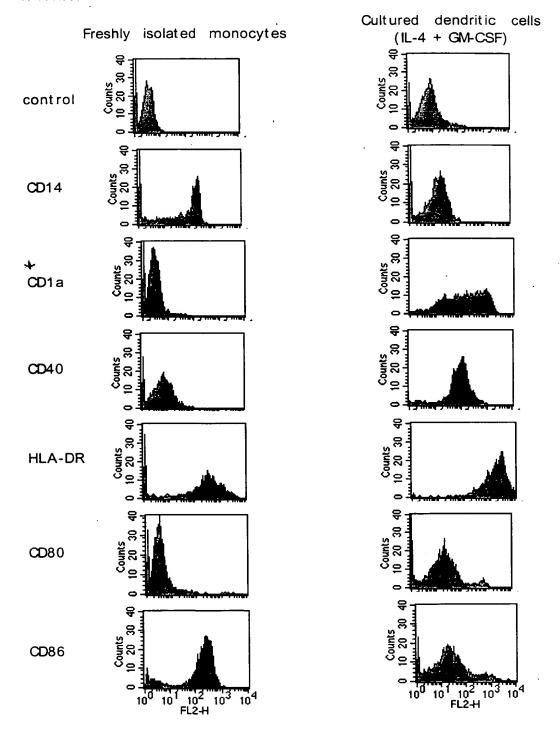
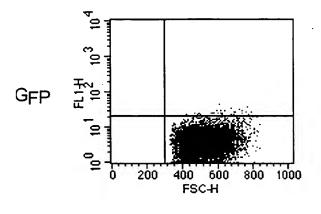


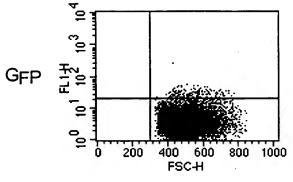
Figure 4B

Transfection of cultured dendritic cells by a plasmid encoding GFP and analysis by flow cytometry.



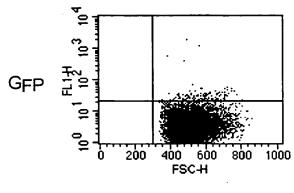
non-transfected

Quad	Events	% Gated	% Total
UL	0	0.00	0.00
UR	34	0.34	0.34
LL	0	0.00	0.00
LR	9966	99.66	99.66



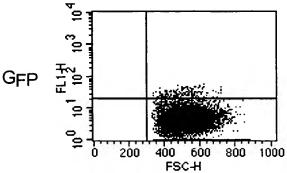
DOTAP 20ul

Quad	Events	% Gated	% Total
UL.	0	0.00	0.00
UR	155	1.55	1.55
LL	0	0.00	0.00
LR.	9 8 45	98.45	98.45



DOTAP 30ul

Quad	Events	% Gated	% Total
UL	0	0.00	0.00
UR	139	1.39	1.39
ш	0	0.00	0.00
LR	9861	98.61	98.61



Superfect

Quad	Events	% Gated	% Total
UL	0	0.00	0.00
UR	164	1.64	1.64
LL	0	0.00	0.00
ĿR	9836	98.36	98.36